

SRIGAYATRI EDUCATIONAL INSTITUTIONS

INDIA

INCOMING SR BIPC ONLINE NEET TEACHING SCHEDULE - 2020-2021

DAY	DATE	BOTANY	ZOOLOGY	PHYSICS	CHEMISTRY
1	27-04-2020	Micro Biology: Introduction	Unit IA- Digestive system introduction	WAVES Definition of wave and wave motion. Classification of waves: Mechanical, Non-mechanical and matter waves with examples.	SOLUTIONS: Solid solutions, gases solutions + Objective
2	28-04-2020	7.1 Morphology of Bacteria	Mouth to large intestine	Progressive waves. Transverse and Longitudinal waves. Properties of medium required for propagation of a wave.	CONCENTRATION TERMS: w%, v%, w/v%, ppm molarity + Objective
3	29-04-2020	7.2 Bacterial cell Structure	Histology, digestive glands- up to intestinal glands	Displacement relation in a progressive wave. Amplitude, Phase, time period, Angular frequency wavelength & wave number initial phase.	Normality + Objective
4	30-04-2020	7.3 Nutrition	Liver	Wave speed, particle speed and relation between them.	CONCENTRATION TERMS : Molality, mole fraction + Objective
5	01-05-2020	7.4 Reproduction	Physiology of digestion	Objective	OBJECTIVE: Remaining objectives on concentration terms
	02-05-2020	PREPARATION			
	03-05-2020	PREPARATION			
6	04-05-2020	7.5 The importance of Bacteria to Humans	Physiology of digestion	Objective	Solubility: Solid in liquids, solubility of gas in liquids
7	05-05-2020	8.1, 8.2	Peristalsis to defecation	The speed of a transverse wave, longitudinal waves (by dimensional analysis method) + Objective	Henry's law and application. Problems on Solubility.
8	06-05-2020	8.3 Structure of Viruses	G.I hormones & disorders	Speed of sound in solids. Speed of sound in gases :Newton's formula and Laplace correction Factors that effect speed of sound in gases : Temperature of medium, Molecular weight of gas, Pressure and Humidity of medium.	Vapour pressure, Boiling point + Objective
9	07-05-2020	8.3 Structure of Viruses	Unit I B- Respiratory system introduction	Objective	Colligative properties: Raoult's law + Objective

10	08-05-2020	8.4 Multiplication of Bacteriophages	Respiratory organs to bronchioles	The principle of Superposition of waves: Equation of resultant wave, resultant amplitude, constructive interference and destructive interference + Objective	Objective Raoult's law
	09-05-2020	PREPARATION			
	10-05-2020	WT-01-NEET MODEL EXAM (SYLLABUS FROM 27-04-2020 TO 08-05-2020)			
11	11-05-2020	8.5, 8.6	Lungs to mechanism of breathing	Reflection of Waves at fixed boundary and free boundary, phase change + Objective	Ideal-non ideal solutions: Objective
12	12-05-2020	UNIT – I : PLANT PHYSIOLOGY - Introduction	Respiratory volumes & capacities, exchange of gases	Standing waves - normal modes of vibration of string fixed on both sides + Objective	Elevation in Boiling point and numericals: Objective
13	13-05-2020	Transport in plants : Means of transport – diffusion.	Transport of gases- oxygen, carbon dioxide	Resonance phenomenon. Vibration of air columns in closed pipes, Vibration of air columns in open pipes	Depression in freezing point : Objective
14	14-05-2020	facilitated diffusion, Active transport,	Regulation of respiration and disorders	Objective	Osmotic pressure and objectives Objective
15	15-05-2020	Comparison of different transport presses	Unit II A- Introduction, Lymphatic system	Objective	Objective
	16-05-2020	PREPARATION			
	17-05-2020	WT-02-NEET MODEL EXAM (SYLLABUS FROM 11-05-2020 TO 15-05-2020)			
16	18-05-2020	Plant water relations – water potential	Clotting of blood	Beats : definition equation and frequency of beats. Importance of beats	Abnormal molar mass, vant hoff factor + Objective
17	19-05-2020	Osmosis, Plasmolysis, Imbibition	Circulating pathways	Objective	Objectives : Remaining Problem
18	20-05-2020	Long distance transport of water, how do plants absorb water ?	Structure of heart	Doppler effect: Definition, apparent frequency Case 1: source moving , observer stationary	Electrochemistry: Electrochemical cells + Objective
19	21-05-2020	Water movement up a plant, Transpiration	Structure of heart	Case 2: observer moving source stationary Case 3 both source and observer moving	Electrochemical cells

20	22-05-2020	Transpiration and photosynthesis – a compromise, uptake & transport mineral nutrients – uptake of mineral ions	Cardiac cycle to regulation	Objective	Mesurment of Electrode potential, electro chemical series PCQ : 78,9,12,13
	23-05-2020	PREPARATION			
	24-05-2020	WT-03-NEET MODEL EXAM (SYLLABUS FROM 18-05-2020 TO 22-05-2020)			
21	25-05-2020	Phloem transport - Flow from source to sink, the Pressure flow or Mass flow hypothesis	Blood vessels and disorders	Objective	NERNST EQUATION + Objective
22	26-05-2020	CHAPTER - 2 : Mineral nutrition upto the end of criteria of essentiality	Blood vessels and disorders	Objective	STANDARD ELECTRODE POTENTIALS. + Objective
23	27-05-2020	Role of micro and macro nutrients	Unit II B EXCRETORY PRODUCTS AND THEIR ELIMINATION Modes of excretion, excretory organs	ELECTRIC CHARGES AND FIELDS: Basic properties of electric charges, methods of charging	ELECTRO CHEMICAL CELL
24	28-05-2020	Deficiency symptoms of essential elements	Kidneys, Structure of Nephron	Coulomb's law & its applications , Electric field & Electric field Intensity	ELECTRO CHEMICAL CELL
25	29-05-2020	Toxicity of micro nutrients	Urine formation	Motion of particle in electric field & its application	GIBB'S ENERGY OF THE REACTION
	30-05-2020	PREPARATION			
	31-05-2020	WT-04-NEET MODEL EXAM (SYLLABUS FROM 25-05-2020 TO 29-05-2020)			
26	01-06-2020	Mechanism of Absorption of elements, Translocation of solutes	Mechanism of concentration of the filtrate	Objective	CONDUCTANCE OF ELECTROLYTIC SOLUTIONS +Objective
27	02-06-2020	Soil as reservoir of essential elements , Metabolism of nitrogen – nitrogen cycle	Hypertonic Urine formation, Micturition, Urine composition	Electric field due to Dipole (in all cases)	SPECIFIC RESISTANCE OR RESISTIVITY CONDUCTANCE. +Objective
28	03-06-2020	Biological nitrogen fixation	Regulation of Kidney function	Couple acting on electric Dipole, Work done and P.E.	MEASUREMENT OF THE CONDUCTIVITY OF IONIC SOLUTIONS (SPECIFIC ,MOLAR CONDUCTANCES). + Objective

29	04-06-2020	CHAPTER - 3 : ENZYMES : Chemical reactions, Enzymatic conversions	Role of other organs in excretion, Disorders of Excretory System,	Objective	VARIATION OF CONDUCTIVITY AND MOLAR CONDUCTIVITY WITH CONCENTRATION, STRONG ELECTROLYTES, WEAK ELECTROLYTES. + Objective
30	05-06-2020	Nature of Enzyme Action	artificial kidney, Kidney transplantation	Gauss law & its applications (Point charge, Spherical distribution)	KOHLRAUSCH LAW, APPLICATIONS AND PROBLEMS + Objective
	06-06-2020	PREPARATION			
	07-06-2020	WT-05-NEET MODEL EXAM (SYLLABUS FROM 01-06-2020 TO 05-06-2020)			
31	08-06-2020	Factors Affecting Enzyme Activity	LOCOMOTION AND MOVEMENT: Types of movement, structure of skeletal muscle upto sarcomere	Linear distribution, Surface distribution	ELECTROLYTIC CELLS AND ELECTROLYSIS + Objective
32	09-06-2020	Classification and Nomenclature of Enzymes	Structure of contractile proteins, triad system, motor system	Objective	PROBLEMS BASED ON KOHLRAUSH LAW
33	10-06-2020	co-factors	Physiology of muscle contraction	ELECTROSTATIC POTENTIAL AND CAPACITANCE : Potential, Potential due to point charge	FARADAYS LAW OF ELECTROLYSIS Ist LAW + Objective
34	11-06-2020	CHAPTER - 4: PHOTOSYNTHESIS IN HIGHER PLANTS : - What do we know ? Early experiments	Muscle fatigue, cori cycle, Red and White muscle fibers,	Relation between E,V, d, Potential difference, Potential due to system of charges	FARADAYS LAW OF ELECTROLYSIS IInd LAW + Objective
35	12-06-2020	What is the site of photosynthesis ?, How many pigments are involved in photosynthesis ?	Classification of muscles based on movement and function	P.E, P.E. in electric field	CHEMICAL KINETICS : introduction, rate of reaction
	13-06-2020	PREPARATION			
	14-06-2020	WT-06-NEET MODEL EXAM (SYLLABUS FROM 08-06-2020 TO 12-06-2020)			
36	15-06-2020	PAR, Action, absorption spectrum.	Skeletal system - Axial skeleton	Objective	Factors effecting rate of reaction
37	16-06-2020	Photoluminescence, Red drop, Emerson enhancement effect	Skeletal system - Axial skeleton	Objective	Temperature dependence, and effect of catalyst

38	17-06-2020	Light reaction of photosynthesis - Electron transport	Skeletal system - Appendicular skeleton Girdles, limb bones (NCERT Lab manual)	Capacitor, Principle & Working, Parallel plate capacitor	Objective
39	18-06-2020	continuation of Z scheme, problems related to it	JOINTS	Effective of Dielectric , Energy stored in a capacitor	Rate expression, Rate constant
40	19-06-2020	Splitting of water, Cyclic and Non –Cyclic photophosphorylation	DISORDERS OF MUSCULAR AND SKELETAL SYSTEM	Effect of Dielectric on Energy	Order of reaction, Molecularity of reaction, differences between molecularity and order of reaction
	20-06-2020	PREPARATION			
	21-06-2020	WT-07-NEET MODEL EXAM (SYLLABUS FROM 15-06-2020 TO 19-06-2020)			
41	22-06-2020	Chemiosmotic hypothesis, where are the ATP & NADPH used	Neural Control and Coordination: Human Neural System - Central neural system, Fore brain up to limbic system	Objective	Integrated rate equation for zero order
42	23-06-2020	The primary acceptor of CO ₂ , The Calvin cycle	Mid brain, Hind brain, Spinal cord	Objective	Integrated rate equation for first order, half-life
43	24-06-2020	C ₄ cycle, anatomy of C ₄ plants	Peripheral neural system - Cranial nerves	Combination of capacitors: Series, Parallel, Mixed Grouping, Vande graff Generator	Objective
44	25-06-2020	CAM plants	Spinal nerves, Autonomous nervous system	Objective	pseudo first order reactions, methods of determination of order of reactions, Collision theory
45	26-06-2020	Photorespiration or C ₂ cycle, Differences between C ₃ , C ₄ plants	Generation and conduction of nerve impulse	Objective	Objective
	27-06-2020	PREPARATION			
	28-06-2020	WT-08-NEET MODEL EXAM (SYLLABUS FROM 22-06-2020 TO 26-06-2020)			

NOTE: In Each Weekend Test (WT) except WT-01, five questions in each subject will be added from the previous week syllabus

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